

Technical Data – Audi A8 3.0 TDI quattro

Program for Germany -Status: July 2010

Model	Audi A8 3.0 TDI quattro
Engine / electronics	
Engine type	V6 engine with 90° V angle
Valve gear / number of valves per cylinder	Roller cam followers with hydraulic valve play compensation / 4
Displacement in cc	2,967 / 83.0 x 91.4 / 16.8
Max. power output in kW (hp) / at rpm	184 (250) at 4000 - 4500
Max. torque in Nm (<i>lb-ft</i>) / at rpm	550 (405.66) at 1500 - 3000
Mixture preparation	Common rail injection system (piezo injectors, max. 1800 bar), direct injection, eight-hole nozzles, VTG turbocharger with intercooler; swirl and tangential intake ports, swirl flap
Exhaust emission control	Oxidizing primary catalytic converter, water-cooled exhaust gas recirculation, maintenance-free diesel particulate filter
Emissions class	EU 5
Alternator in A / battery in A/Ah	190 (water-cooled) / 580/105
Start-stop system	Switches the engine off if the vehicle is stationary and no gear is engaged
Recuperation	Temporarily stores braking energy in the battery, and thus aids driving off and acceleration
Drivetrain / transmission	
Drive type	quattro permanent all-wheel drive with self-locking center differential, ESP
Clutch	Hydraulic torque converter with lock-up clutch
Transmission type	8-speed tiptronic with DSP and sport program
Gear ratio in 1st gear / 2nd gear	4.714 / 3.143
Gear ratio in 3rd gear / 4th gear	2.106 / 1.667
Gear ratio in 5th gear / 6th gear	1.285 / 1.000
Gear ratio in 7th gear / 8th gear	0.839 / 0.667
Reverse gear / final drive ratio	3.317 / 2.624
Suspension / steering / brakes	
Front suspension	Five-link front suspension, upper and lower wishbones, tubular anti-roll bar, air suspension
Rear suspension	Trapezoidal-link suspension with wishbones, tubular anti-roll bar, air suspension
Steering / steering ratio / turning circle in meters (D102) (<i>feet</i>)	Maintenance-free rack-and-pinion steering with speed-dependent power assistance / 15.1 / approx. 12.3 m (40.35)
Brake system	Dual-circuit brake system with diagonal split with ESP/ABS/EBD, brake booster; hydraulic brake assist; front and rear disk brakes: ventilated; electromechanical parking brake
Wheels / tires	Lightweight forged aluminum wheels 8.0Jx17 / 235/60R17 102Y
Performance / consumption / acoustics	
Top speed in km/h (<i>mph</i>)	250 (155.34) (governed)
Acceleration, 0-100 km/h (0-62.14 <i>mph</i>) in sec	6.1
Fuel / octane value	Diesel, sulfur-free, according to DIN EN 590
Fuel consumption: city / highway / combined, l/100 km (<i>US mpg</i>)	8.0 (29.40) / 5.8 (40.55) / 6.6 (35.64)
CO2 mass emission, g/km (<i>g/mile</i>)	211 (339.57) / 153 (246.23) / 174 (280.03)
Idling / drive-past exterior noise level in dB (A)	71 / 72
Servicing / guarantee (Germany)	
LongLife Service after max. km (<i>miles</i>)	30,000 km (18,641) / 2 years
Vehicle / paint / rust perforation guarantee	2 / 3 / 12 (years)
Insurance classification in Germany: third party / fully comprehensive / part-	23 / 28 / 30
Weights / loads	
Unladen weight according to EU (excluding driver) / gross weight limit; in kg (<i>pounds</i>)	1840 (4,056.51) / 1915 (4,221.85) / 2530 (5,577.70)
Axle load limit at front / rear in kg (<i>pounds</i>)	1280 (2,821.92) / 1400 (3,086.47)
Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (<i>pounds</i>)	2200 (4,850.17) / 2200 (4,850.17) / 750 (1,653.47)
Roof load limit in kg / permissible nose weight in kg (<i>pounds</i>)	100 (220.46) / 95 (209.44)
Capacities	
Engine oil capacity (including filter) in liters (<i>US quarts</i>)	8 (8.45)
Fuel tank capacity in liters (<i>US gallons</i>)	90 (23.78)
Body / dimensions	
Body type / number of doors / seats	Aluminum: Audi Space Frame ASF / 4 / 5
Drag coefficient Cd / frontal area A in m2 (<i>square feet</i>)	0.26 / 2.41 (25.94)
Length (L103) / width excl. mirrors (W103) / height (H101-M), mm (<i>feet</i>)	5137(16.85) / 1949 (6.39) / 1460 (4.79)
Wheelbase (L101) / track at front/rear (W101-1/W101-2), mm (<i>feet</i>)	2992 (9.82) / 1644 (5.39) / 1635 (5.36)
Height of loading lip in mm (H196) (<i>feet</i>)	690 (2.26)
Luggage capacity in liters (<i>cubic feet</i>) , according to VDA block method (V211) / rear seat bench folded	510 (18.01) / -